Layer 3 24-Port Gigabit TP/SFP + 4-Port 10G SFP+ Stackable Managed Switch

XGS3-24242

Quick Installation Guide

Table of Contents

1. Package Contents

Thank you for purchasing PLANET XGS3-24242 Managed switch. The description of this model is shown below:

XGS3-24242	Layer 3 24-Port 100/1000X SFP + 8-Port Shared TP + 4-Port 10G SFP+ Stackable Managed Switch

"L3 Managed Switch" is used as an alternative name in this Quick Installation Guide.

Open the box of the **L3 Managed Switch** and carefully unpack it. The box should contain the following items:

	XGS3-24242
The L3 Managed Switch	■
QR Code Sheet	■
RJ45-to-DB9 Console Cable	■
AC Power Cord	1
Rubber Feet	■
Two Rack-mounting Brackets with Attachment Screws	■
SFP Dust Cap	28

If any item is found missing or damaged, please contact your local reseller for replacement.

2. Switch Management

To set up the L3 Managed Switch, the user needs to configure the L3 Managed Switch for network management. The L3 Managed Switch provides two management options: **Out-of-Band Management and In-Band Management**.

■ Out-of-Band Management

Out-of-band management is the management through Console interface. **Generally**, **the user will use out-of-band management for the initial switch configuration,** or when in-band management is not available.

	The L3 Managed Switch is shipped with IP address (192.168.0.254/24) assigned by default. User can assign another IP address to the L3 Managed Switch via the Console interface to be able to remotely access the L3 Managed Switch through Telnet or HTTP.
Note	

■ In-Band Management

In-band management refers to the management by logging in to the L3 Managed Switch using Telnet or HTTP, or using SNMP management software to configure the L3 Managed Switch. In-band management enables the management of the L3 Managed Switch to attach some devices to the Switch. The following procedures are required to enable in-band management:

1. Logon to console

2. Assign/Configure IP address

3. Create a remote login account

4. Enable HTTP or Telnet server on the L3 Managed Switch

In case in-band management fails due to L3 Managed Switch configuration changes, out-of-band management can be used for configuring and managing the L3 Managed Switch.

3. Requirements

- **Workstations** running Windows 7/8/10/11, macOS 10.12 or later, Linux Kernel 2.6.18 or later, or other modern operating systems are compatible with TCP/IP Protocols.

- Workstations are installed with Ethernet NIC (Network Interface Card)

- **Serial Port Connection** (Terminal)

  ➢ The above Workstations come with COM Port (DB9) or USB-to-RS232 converter.

  ➢ The above Workstations have been installed with terminal emulator, such as Tera Term or PuTTY.

  ➢ Serial cable -- one end is attached to the RS232 serial port, while the other end to the console port of the L3 Managed Switch.

- **Ethernet Port Connection**

  ➢ Network cables -- Use standard network (UTP) cables with RJ45 connectors.

  ➢ The above PC is installed with Web browser.

Note	It is recommended to use Google Chrome, Microsoft Edge or Firefox to access the Industrial Managed Switch. If the Web interface of the Industrial Managed Switch is not accessible, please turn off the anti-virus software or firewall and then try it again.

4. Terminal Setup

To configure the system, connect a serial cable to a **COM port** on a PC or notebook computer and to serial (console) port of the L3 Managed Switch. The console port of the L3 Managed Switch is DCE already, so that you can connect the console port directly through PC without the need of Null Modem.
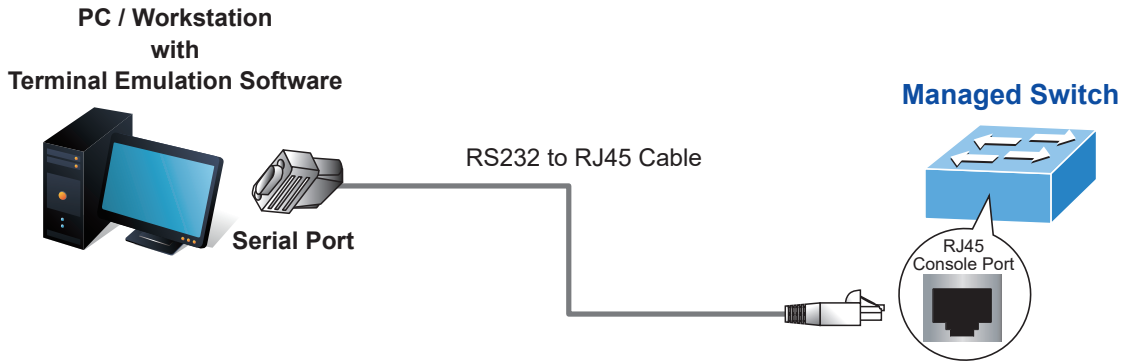

Figure 4-1: L3 Managed Switch Console Connectivity

A terminal program is required to make the software connection to the L3 Managed Switch. Tera Term program may be a good choice. The Tera Term can be accessed from the Start menu.

1. Click **START** menu, then **Programs**, and then **Tera Term**.

2. When the following screen appears, make sure that the COM port should be configured as:

- Baud: 115200

- Parity: None

- Data bits: 8

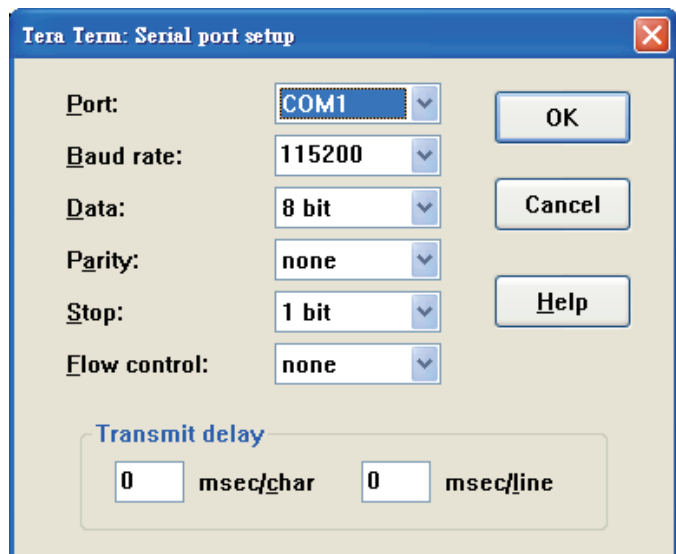- Stop bits: 1

- Flow control: None

Figure 4-2: Tera Term COM Port Configuration

4.1 Logging on to the Console

Once the terminal is connected to the device, power on the L3 Managed Switch, and the terminal will display **"running testing procedures"**.

Then, the following message asks for the login user name and password. The factory default user name and password are as follows as the login screen in Figure 4-3 appears.

Note	The following console screen is based on the firmware version before **May of 2024**.

Username: **admin**
Password: **admin**

Figure 4-3: L3 Managed Switch Console Login Screen

The user can now enter commands to manage the Switch. For a detailed description of the commands, please refer to the following chapters.

|	
Note	1. For security reason, please change and memorize the new password after this first setup.
	2. Only accept command in lowercase letter under console interface.

User name: **admin**
Password: **sw + the last 6 characters of the MAC ID in lowercase**

Find the MAC ID on your device label. The default password is "sw" or "mc" followed by the last six lowercase characters of the MAC ID.

Managed Ethernet Device
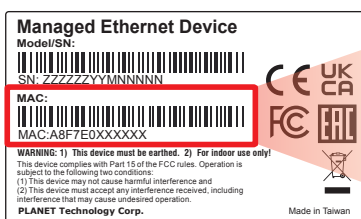
MAC ID: A8F7E0XXXXXX
Default Password: swxxxxxx
("x" means the last 6 digits of the MAC address.
All characters should be in lowercase.)

Figure 4-4: Managed Switch MAC ID Label

Enter the default username and password, then set a new password according to the rule-based prompt and confirm it. Upon success, press any key to return to the login prompt. Log in with "admin" and the "new password" to access the CLI.


```
Please change default password!

The password must contain 8-32 characters,including upper case
,lower case,numerals,and other symbols.Please note,spaces(blan
ks) are not accepted!
Enter Password:********
Re-Enter Password:********
Default password has been changed!
```

Figure 4-5: Create a New Password and Login Again

The user can now enter commands to manage the Managed Switch. For a detailed description of the commands, please refer to the following chapters.

4.2 Configuring IP Address

The IP address configuration commands for VLAN1 interface are listed below. Before using in-band management, the L3 Managed Switch must be configured with an IP address by out-of-band management (i.e. console mode). The configuration commands are as follows:

```
XGS3-24242# config
XGS3-24242(config)# interface vlan 1
XGS3-24242(config-if-Vlan1)# ip address 192.168.1.254 255.255.255.0
```

The previous command would apply the follow settings for the L3 Managed Switch.

IPv4 Address: 192.168.1.254
Subnet Mask: 255.255.255.0

```
XGS3-24242#config
XGS3-24242(config)#interface vlan 1
XGS3-24242(config-if-vlan1)#ip address 192.168.1.254 255.255.255.0
XGS3-24242(config-if-vlan1)#
XGS3-24242(config-if-vlan1)#
```

Figure 4-6: Configuring IPv4 Address Screen

To check the current IP address or modify a new IP address for the L3 Managed Switch, please use the procedures as follows:

■ **Show the current IP address**

1. On **"XGS3-24242(config)#"** prompt, enter **"show ip interface brief"**.

2. The screen displays the current IP address shown in Figure 4-7.

```
XGS3-24242#config
XGS3-24242(config)#show ip interface brief
Index     Interface          IP-Address        Protocol
1254      Ethernet0          192.168.1.1       down
11001     Vlan1              192.168.1.254     up
17500     Loopback           127.0.0.1         up

XGS3-24242(config)#
```

Figure 4-7: Showing IP Information Screen

If the IP is successfully configured, the L3 Managed Switch will apply the new IP address setting immediately. You can access the Web interface of L3 Managed Switch through the new IP address.

Note	If you are not familiar with console command or the related parameter, enter **"help"** anytime in console to get the help description.

4.3 Setting 1000BASE-X for SFP+ Port

The L3 Managed Switch supports both **10GBASE-X** SFP+ transceiver and **1000BASE-X** SFP transceiver by manual setting and the default SFP+ port speed is set to 10Gbps. To establish the fiber connection with 1000BASE-X SFP transceiver, the following command configuration is required:

XGS3-24242**#config**
XGS3-24242(config)**#interface ethernet 1/0/25-28**
XGS3-24242(config-if-port-range)**#speed-duplex force1g-full**

```
XGS3-24242#
XGS3-24242#config
XGS3-24242(config)#interface ethernet 1/0/25-28
XGS3-24242(config-if-port-range)#speed-duplex force1g-full
XGS3-24242(config-if-port-range)#
```

Figure 4-8: Setting 1000BASE-X Screen

4.4 Setting 100BASE-FX for SFP Port

The L3 Managed Switch supports both **1000BASE-X** and **100BASE-FX** SFP transceivers by manual setting and the default SFP port speed is set to 1000Mbps. To establish the fiber connection with 100BASE-FX SFP transceiver, the following command configuration is required:

XGS3-24242**#config**
XGS3-24242(config)**#interface ethernet 1/0/9-24**
XGS3-24242(config-if-port-range)**#speed-duplex force100-fx**

```
XGS3-24242#
XGS3-24242#config
XGS3-24242(config)#interface ethernet 1/0/9-24
XGS3-24242(config-if-port-range)#speed-duplex force100-fx
XGS3-24242(config-if-port-range)#
```

Figure 4-9: Setting 100BASE-FX Screen

4.5 Saving the Configuration

In L3 Managed Switch, the running configuration file stores in the RAM. In the current version, the running configuration sequence running-config can be saved from the RAM to FLASH by **write** command or **copy running-config startup-config** command, so that the running configuration sequence becomes the start-up configuration file, which is called configuration save.

XGS3-24242**#copy running-config startup-config**

```
XGS3-24242#
XGS3-24242#copy running-config startup-config
Confirm to overwrite current startup-config configuration [Y/N]:Y
XGS3-24242#
```

Figure 4-10: Copying Running-config Startup-config Screen

5. Starting Web Management

The L3 Managed Switch provides a built-in browser interface. You can manage it remotely by having a remote host with Web browser, such as Mozilla Firefox, Google Chrome or Apple Safari.
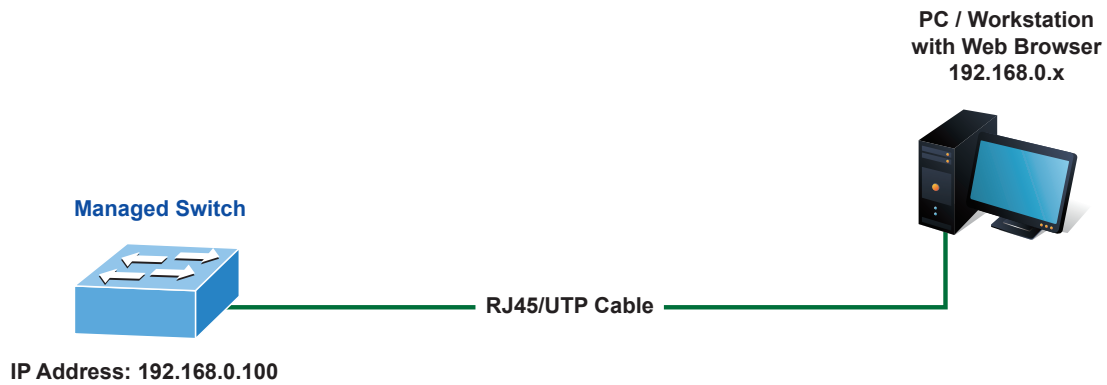
**PC / Workstation
with Web Browser
192.168.0.x**

Managed Switch

RJ45/UTP Cable

IP Address: 192.168.0.100

Figure 5-1: IP Management Diagram

The following shows how to start up the **Web Management** of the L3 Managed Switch. Please note the L3 Managed Switch is configured through an Ethernet connection. Please make sure the manager PC must be set to the same **IP subnet address**.

For example, the IP address of the L3 Managed Switch is configured with *192.168.0.254*, then the manager PC should be set to **192.168.0.x** (where x is a number between 1 and 253, except 254), and the default subnet mask is 255.255.255.0.

5.1 Logging in to the L3 Managed Switch

1. Use Internet Google Chrome or above Web browser and enter IP address **_https://192.168.0.254_** to access the Web interface.

> **Note**
> The following console screen is based on the firmware version before **May of 2024**.

2. When the following dialog box appears, please enter the configured username **"admin"** and password **"admin"** (or the username/password you have changed via console). The login screen in Figure 5-2 appears.
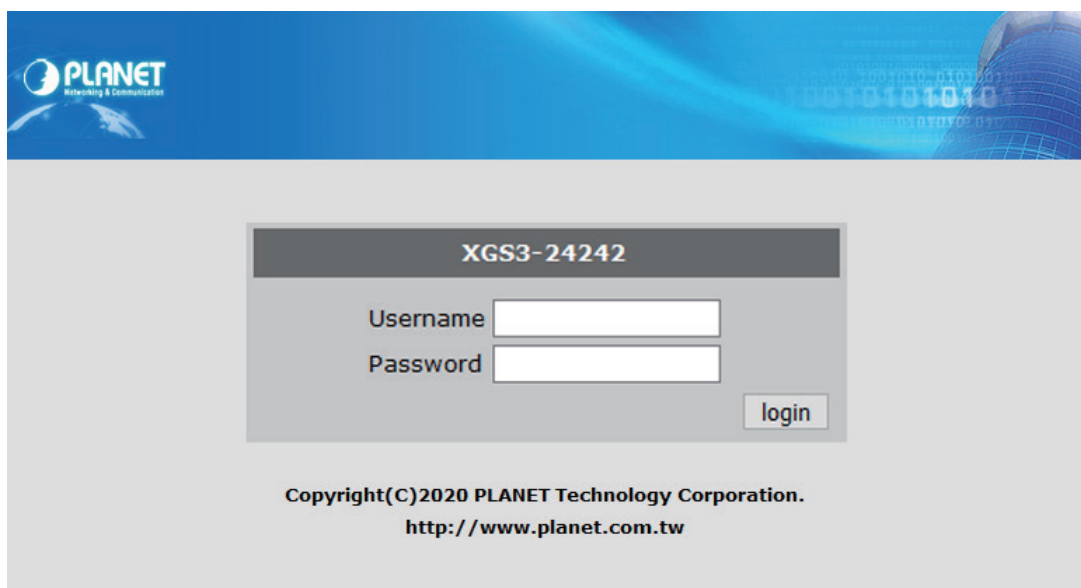

Figure 5-2: Web Login Screen

3. After entering the password, the main screen appears as shown in Figure 5-6.

> **Note**
> The following web screen is based on the firmware version of **May of 2024 or after**.

4. When the following dialog box appears, please enter the default user name **"admin"** and the password. Refer to **Section 4.1** to determine your initial login password.

Default IP Address: **192.168.0.100**
Default User Name: **admin**
Default Password: **sw + the last 6 characters of the MAC ID in lowercase**

5. Find the MAC ID on your device label. The default password is "sw" or "mc" followed by the last six lowercase characters of the MAC ID.
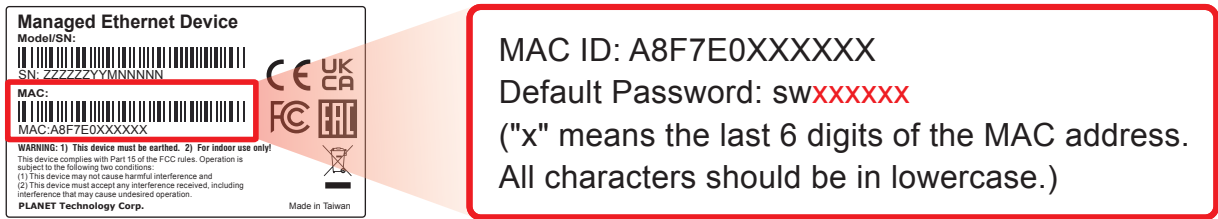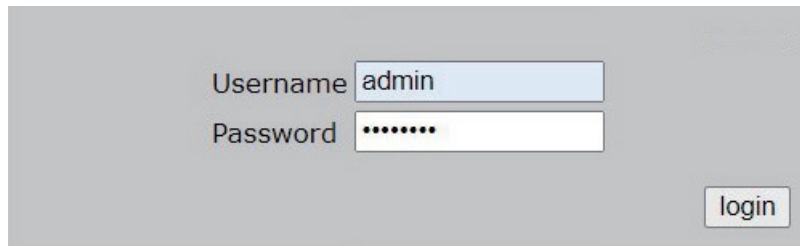

Figure 5-3: Industrial Managed Switch MAC ID Label

Figure 5-4: Login Screen

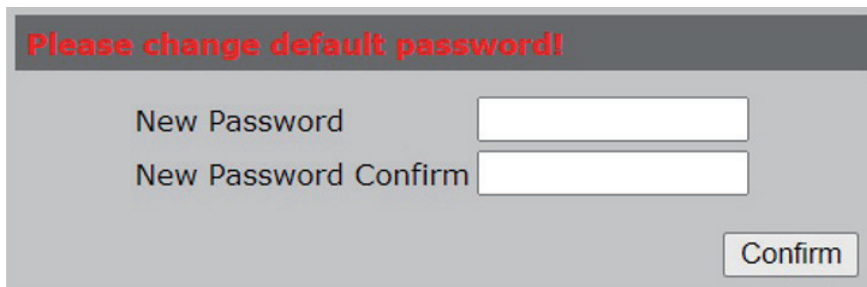6. After logging in, you will be prompted to change the initial password to a permanent one.

Figure 5-5: Create a New Password

7. Enter the default username and password, then set a new password according to the rule-based prompt and confirm it. Upon success, press any key to return to the login prompt. Log in with "admin" and the "new password" to access the Web interface.
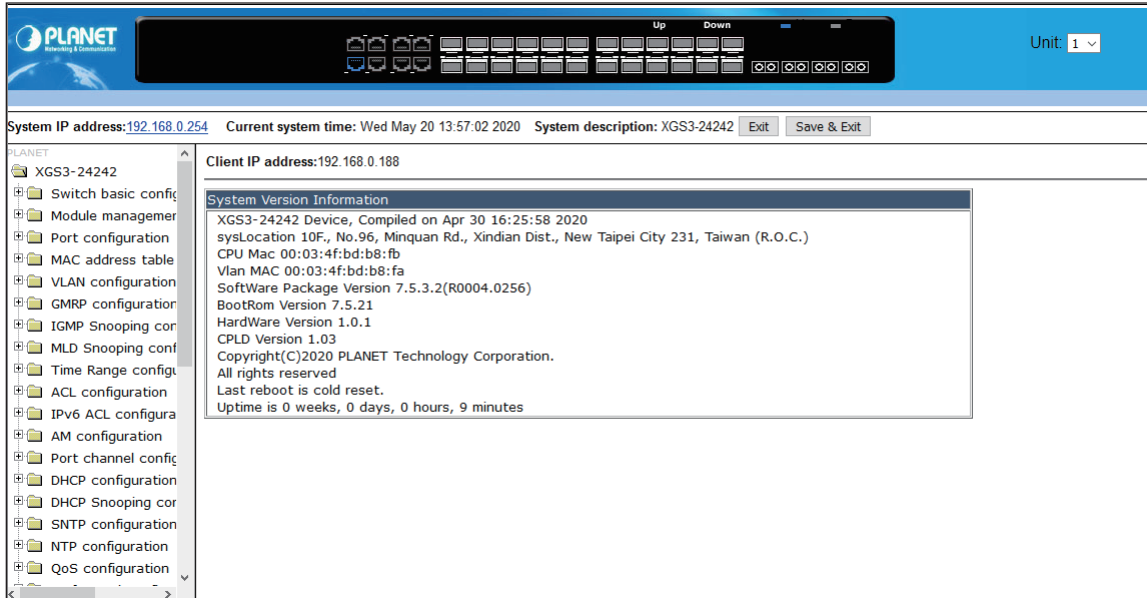

Figure 5-6: Web Main Screen of L3 Managed Switch

8. The Switch Menu on the left of the Web page lets you access all the commands and statistics the Switch provides.

Now, you can use the Web management interface to continue the Switch management or manage the L3 Managed Switch by console interface. Please refer to the user manual for more.

5.2 Saving Configuration via the Web

In the L3 Managed Switch, the running configuration file stores in the RAM. In the current version, the running configuration sequence of running-config can be saved from the RAM to FLASH by **"Save current running-configurations"** function, so that the running configuration sequence becomes the startup configuration file, which is called configuration save.

To save all applied changes and set the current configuration as a startup configuration, the startup-configuration file will be loaded automatically across a system reboot.

1. Click **"Switch basic configuration > Switch basic configuration > Save current running-configuration"** to login **"Save current running-configuration"** page.
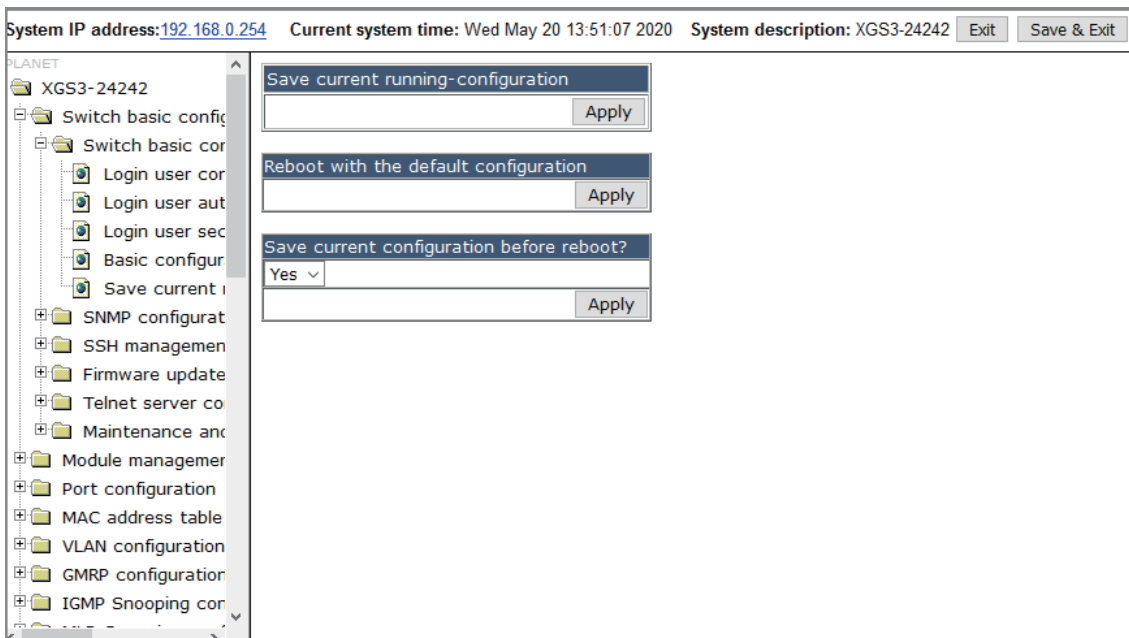
2. Press the **"Apply"** button to save current running-configuration to start up configuration.

6. Recovering Back to Default Configuration

To reset the IP address to the default IP address **"192.168.0.254"** or reset the login password to default value, press the hardware-based **reset button** on the front panel for about **10 seconds**. After the device is rebooted, you can log in the management Web interface within the same subnet of 192.168.0.xx.
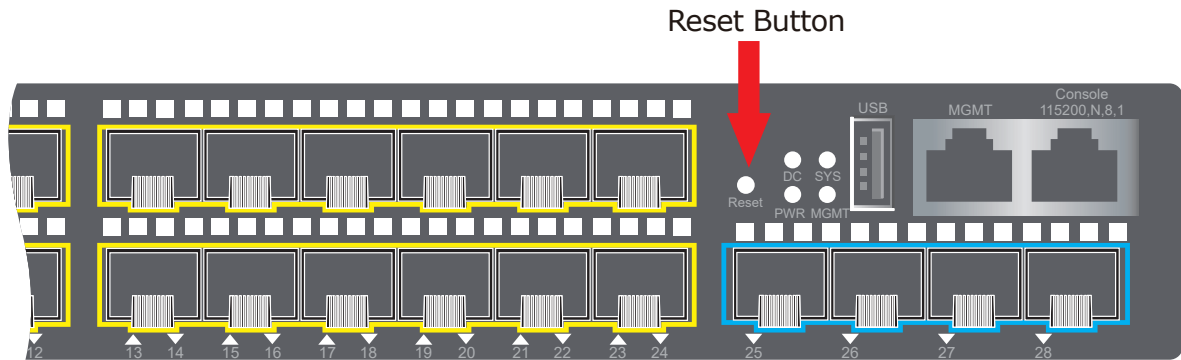

Figure 6-1: XGS3-24242 Reset Button

7. Customer Support

TThank you for purchasing PLANET products. You can browse our online FAQ resource on PLANET Web site first to check if it could solve your issue. If you need more support information, please contact PLANET switch support team.

PLANET online FAQs:
https://www.planet.com.tw/en/support/faq.php?type=1

Switch support team mail address:
support@planet.com.tw

XGS3-24242v3 User's Manual
https://www.planet.com.tw/en/support/download.
php?&method=keyword&keyword=xgs3-2&view=3#list

(Please select your switch model name from the Product Model drop-down menu)